



DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.

Activity No.: PER20070001

Agency Interest No. 13145

Mr. Walter L. Ferguson
Division Senior V. P. and C. O. O.
CenterPoint Energy – Mississippi River Transmission Corporation
Post Office Box 4567
Houston, Texas 77210-4567

RE: Part 70 Operating Permit, Unionville Storage Compressor Station, CenterPoint Energy –
Mississippi River Transmission Corporation, Dubach, Lincoln Parish, Louisiana

Dear Mr. Ferguson:

This is to inform you that the permit modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the 26 of February, 2012, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this _____ day of _____, 2007.

Permit No.: 1720-00014-V3

Sincerely,

Chuck Carr Brown Ph.D.
Assistant Secretary

CCB:sbp

c: EPA Region VI

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Unionville Storage Compressor Station
Agency Interest No.: 13145
CenterPoint Energy – Mississippi River Transmission Corporation
Dubach, Lincoln Parish, Louisiana**

I. Background

CenterPoint Energy – Mississippi River Transmission Corporation (MRT) owns and operates the Unionville Storage Compressor Station located in Lincoln Parish.

Prior to the issuance of the site's initial Title V permit, Unionville Storage Compressor Station operated under Permit No. 1720-00014-02, granted January 29, 1992. Installation of a 2,250 hp compressor engine (1-95) was authorized by Permit No. 2398, dated May 20, 1996.

Permit No 1720-00014-V0 was issued December 23, 1997. With 1720-0014-V0, MRT established combined NO_x, CO, and VOC emission rate limits for the two 6,500 hp and the 8,000 hp compressor engines for operational flexibility. MRT also installed a Smart Ash Combustion Unit to dispose of non-hazardous solid waste generated at the facility. Emission rate estimates for all combustion sources were updated to reflect revised emission factors. Existing emissions from tank truck loading were included, and Auxiliary Generator Nos. 1 and 2 were removed from service.

Permit No. 2576-V0 was issued November 5, 1998. With 2576-V0, MRT added a 400 bbl fixed roof storage tank and the resultant tank truck loading emissions. The tank is used to collect and store spilled, leaked, or runoff glycol, water, and lube oil which is first routed through an in-ground sump. The permit authorized installation of a flare to control emissions from the glycol dehydrators' still column vents. The flare would only be installed and used in the event that the current method of control, condensing vapors and routing non-condensables to the reboiler firebox, did not achieve the desired efficiency.

The facility was modified under Permit No. 1720-00014-V1, which was issued on December 20, 2000. With 1720-00014-V1, MRT incorporated Permit No. 2576-V0 and Permit No. 2398. The modification also discussed the leak identification system on-site and included updated emission factors for sources and quantified formaldehyde emissions. The operating time of the Smart Ash Combustion Unit was decreased, from 8,760 hours per year to 5,840 hours per year, to better reflect its actual operating scenario.

The facility currently operates under Permit No. 1720-0014-V2, issued on January 27, 2006, and administratively amended on February 26, 2007. This permit modification replaced the BTEX recovery unit, which controlled emissions from the four glycol dehydration units, with a thermal oxidation unit which was approved under an Authorization to Construct issued on July 30, 2002. Also in this permit modification, the glycol dehydrator Flare and Smart Ash Combustion Unit were removed and two Condensate Storage Tanks were added to increase throughput at the Tank Truck Loading operation.

This is the Part 70 operating permit for the facility.

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II. Origin

A permit application and Emission Inventory Questionnaire were submitted by CenterPoint Energy – Mississippi River Transmission Corporation on July 5, 2007 requesting a Part 70 operating permit modification. Additional information dated August 24, 2007, and August 30, 2007, was also received.

III. Description

Unionville Storage Compressor Station receives natural gas from nearby pipelines and injects it into underground reservoirs. When needed, gas is withdrawn from storage and transported offsite via pipelines. Four process heaters are used to prevent gas from freezing, and four glycol dehydrations units are employed to remove water in the gas stream. Emissions from each still column vent are controlled through the use of a thermal oxidizer. Approximately 30 billion cubic feet of natural gas are handled annually.

The primary emission sources at the site are three Dresser Clark TCV-16 compressor engines (1-69, 2-69, and 1-74) and one Cooper Bessemer GMVH-10C2 compressor engine (1-95). These units serve as both the mainline compression and storage injection/withdrawal equipment. The 655 hp Caterpillar Generator (1-88) is equipped with a catalytic converter.

MRT proposes to make the following modifications to the Unionville Storage Compressor Station:

- One Caterpillar G3516TATE compressor engine rated at 1,340 hp and equipped with an oxidation catalyst (3-07) is being added. This engine will be subject to the standards of 40 CFR 63 Subpart ZZZZ.
- One glycol dehydrator (Dehydrator No. 5) rated at 20 MM scf/day and equipped with a 1.5 MM BTU/hr reboiler (4-07A) is being added. Emissions from this dehydrator will be controlled by routing still vent off gases (4-07B) through a condenser and then through the existing thermal oxidizer (1-02). This dehydrator will be subject to the requirements of 40 CFR 63 Subpart HHH.
- Emissions from the thermal oxidizer are being updated to reflect the addition of the glycol dehydrator and to utilize more appropriate AP-42 emission factors.
- The existing generator engine (1-88) is being replaced with a 1,340 hp rated Caterpillar G3516TATE generator engine (1-07) which will only be used for the emergency generation of electricity.
- The reboiler (1-90-A) on Dehydrator No. 4 is being replaced with an identical unit (2-07A).

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- The LAC 33:III2107.D.1 recordkeeping requirements for the loading operations (3-95 and 2-98) are being removed as these requirements were erroneously incorporated since the facility has never had and does not currently have the capacity to load more than 20,000 gallons per day averaged over any 30-day period
- A 400 bbl-wastewater storage tank is being added as an insignificant activity.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	1.30	1.96	+ 0.66
SO ₂	0.68	0.72	+ 0.04
NO _x	947.56	968.38	+ 20.82
CO	350.68	334.16	- 16.52
VOC *	124.93	129.02	+ 4.09

VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Before	After	Change
Acetaldehyde	1.71	2.04	+ 0.33
Acrolein	-	0.243	+ 0.243
Benzene	4.23	5.233	+ 1.003
Ethyl benzene	0.51	0.519	+ 0.009
Formaldehyde	16.62	17.22	+ 0.60
Methanol	1.12	1.296	+ 0.176
n-Hexane	1.75	1.889	+ 0.139
Toluene	1.37	1.488	+ 0.118
Xylenes	2.73	2.717	- 0.013
Total	30.04	32.645	+ 2.605
<u>Other VOC (TPY):</u>		96.375	

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IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, and National Emission Standards for Hazardous Air Pollutants (NESHAP). New Source Performance Standards (NSPS) and Prevention of Significant Deterioration (PSD) do not apply.

This facility is a minor source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. Formaldehyde is emitted above the major source threshold level. Formaldehyde is a Class I TAP. However, the formaldehyde emissions which are from the combustion of Group 1 virgin fossil fuels are exempt by LAC 33:III.5105.B.3.a

This facility is a major source of hazardous air pollutants (HAPs) and NESHAP 40 CFR 63 Subparts HHH and ZZZZ apply.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 200X; and in the <local paper>, <local town>, on <date>, 200X. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

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VII. Effects on Ambient Air

Dispersion Model(s) Used: None

VIII. General Condition XVII Activities

Work Activity	Schedule	Emission Rates - tons				
		PM ₁₀	SO ₂	NO _x	CO	VOC
Gas Sampling	-	-	-	-	-	<1.0
Equipment/Station Blowdown	-	-	-	-	-	<1.0
Pump Maintenance	-	-	-	-	-	<1.0
Safety inspections/Checks on rupture discs	-	-	-	-	-	<1.0
Safety inspections/Checks on Pressure/Vacuum vents on Tanks	-	-	-	-	-	<1.0
Inspections on control devices	-	-	-	-	-	<1.0
Service factors on control devices	-	-	-	-	-	<1.0
Removal of Tank sludge	-	-	-	-	-	<1.0
Vessel preparation	-	-	-	-	-	<1.0
Instrument Maintenance	-	-	-	-	-	<1.0
Tank Gauging	-	-	-	-	-	<1.0
Removal of solids from sumps	-	-	-	-	-	<1.0
Nitrogen blowing of lines and equip.	-	-	-	-	-	<1.0
Purging off-spec material to control devices	-	-	-	-	-	<1.0
Changing filters	-	-	-	-	-	<1.0
Compressor maintenance	-	-	-	-	-	<1.0
Valve maintenance	-	-	-	-	-	<1.0
Draining compressor bottles	-	-	-	-	-	<1.0
Misc. equip. preparation	-	-	-	-	-	<1.0

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IX. Insignificant Activities

ID No.:	Description	Citation
T-1	Waste Oil Storage Tank – 5,235 gallons	LAC 33:III.501.B.5.A.3
T-3	Oil/Water Storage Tank – 8,226 gallons	LAC 33:III.501.B.5.A.3
T-4	Oil/Water Storage Tank – 8,226 gallons	LAC 33:III.501.B.5.A.3
T-5	Saltwater Storage Tank	LAC 33:III.501.B.5.A.3
T-6	Glycol Storage Tank – 8,226 gallons	LAC 33:III.501.B.5.A.3
T-7	Glycol Storage Tank – 8,226 gallons	LAC 33:III.501.B.5.A.3
T-8	Saltwater Storage Tank	LAC 33:III.501.B.5.A.3
T-9	Ambitrol Storage Tank – 8,226 gallons	LAC 33:III.501.B.5.A.3
T-10	Lube Oil Storage Tank – 8,226 gallons	LAC 33:III.501.B.5.A.3
T-11	Lube Oil Storage Tank – 8,226 gallons	LAC 33:III.501.B.5.A.3
T-12	Lube Oil Storage Tank – 8,226 gallons	LAC 33:III.501.B.5.A.3
T-13	Lube Oil Storage Tank – 8,226 gallons	LAC 33:III.501.B.5.A.3
T-14	Ambitrol Storage Tank – 8,226 gallons	LAC 33:III.501.B.5.A.3
T-15	Kerosene Storage Tank – 8,226 gallons	LAC 33:III.501.B.5.A.3
T-16	Lube Oil Storage Tank – 8,226 gallons	LAC 33:III.501.B.5.A.3
T-17	Wastewater Storage Tank – 400 barrels	LAC 33:III.501.B.5.D

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III Chapter																		
		5▲	509	9	11	13	15	2103	2104*	2107	2111	2115	2116*	2121	22	29*	51*	53*	56	59*
UNF 1	Unionville Storage Compressor Sta.	1		1	1	1	1									1	1	1	1	3
GRP 4	CEC Compressor Engine CAP	1																		
EQT 1	4-74B Dehydrator No. 2 Still Column Vent															3	1			
EQT 2	5-74B Dehydrator No. 3 Still Column Vent															3	1			
EQT 3	1-87B Dehydrator No. 1 Still Column Vent															3	1			
EQT 4	1-90B Dehydrator No. 4 Still Column Vent															3	1			
EQT 5	1-02 Glycol Dehydrator Thermal Oxidizer	1		1	1	1	3									1				
EQT 6	1-69 Compressor Engine	1				1	3												2	
EQT 7	2-69 Compressor Engine	1				1	3											2		
EQT 8	1-74 Compressor Engine	1				1	3											2		
EQT 9	4-74A Dehydrator No. 2 Reboiler					1	1	3												
EQT 10	5-74A Dehydrator No. 3 Reboiler					1	1	3												
EQT 12	1-87A Dehydrator No. 1 Reboiler					1	1	3												
EQT 13	2-74 Heater No. 3					1	1	3												
EQT 14	3-74 Heater No. 4					1	1	3												
EQT 15	4-69 Heater No. 1					1	1	3												

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ID No.:	Description	LAC 33:III.Chapter																		
		5▲	509	9	11	13	15	2103	2104*	2107	2111	2115	2116*	2121	22	29*	51*	53*	56	59*
EQT 16	3-95 Heater No. 2				1	1	3													
EQT 17	3-95 Tank Truck Loading																			
EQT 18	2-98 Tank Truck Loading for T-18																			
EQT 19	T-2 Hydrocarbon Liquid Storage Tank																			
EQT 20	T-17 Methanol Storage Tank																			
EQT 21	T-18 Water, Lube Oil, & Glycol Storage Tank																			
EQT 22	T-19 Condensate Storage Tank No. 1																			
EQT 23	T-20 Condensate Storage Tank No. 2																			
EQT 25	1-95 Compressor Engine	1																		2
EQT 26	1-07 Caterpillar G3516 Generator Engine																			2
EQT 27	2-07A Dehydrator No. 4 Reboiler																			
EQT 28	3-07 Caterpillar G3516TALE Comp. Engine	1																		
EQT 29	4-07A Dehydrator No. 5 Reboiler																			
EQT 30	4-07B Dehydrator No. 5 Still Column Vent																3	1		
FUG 1	Fugitive Emissions																1			

* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

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KEY TO MATRIX

- 1 - The regulations have applicable requirements that apply to this particular emission source.
The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61			40 CFR 63 NESHAP			40 CFR				
		A	K	Ka	Kb	Db	Dc	GG	KKK	III	A	J	M	A	HHH	DDDDD	ZZZZ	64
UNF 1	Unionville Storage Compressor Sta.										1	1	1					3
GRP 4	CEC Compressor Engine CAP																	
EQT 1	4-74B Dehydrator No. 2 Still Column Vent																	1
EQT 2	5-74B Dehydrator No. 3 Still Column Vent																	1
EQT 3	1-87B Dehydrator No. 1 Still Column Vent																	1
EQT 4	1-90B Dehydrator No. 4 Still Column Vent																	1
EQT 5	1-02 Glycol Dehydrator Thermal Oxidizer																	1
EQT 6	1-69 Compressor Engine																	2
EQT 7	2-69 Compressor Engine																	2
EQT 8	1-74 Compressor Engine																	2
EQT 9	4-74A Dehydrator No. 2 Reboiler																	2
EQT 10	5-74A Dehydrator No. 3 Reboiler																	2
EQT 12	1-87A Dehydrator No. 1 Reboiler																	2
EQT 13	2-74 Heater No. 3																	2
EQT 14	3-74 Heater No. 4																	2
EQT 15	4-69 Heater No. 1																	2

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ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP					
		A	K	Ka	Kb	Db	Dc	GG	KKK	III	A	J	M	A	HHH	DDDDD	ZZZZ	64	68
EQT 16	3-95 Heater No. 2																	2	
EQT 17	3-95 Tank Truck Loading																		
EQT 18	2-98 Tank Truck Loading for T-18																		
EQT 19	T-2 Hydrocarbon Liquid Storage Tank																		
EQT 20	T-17 Methanol Storage Tank																		
EQT 21	T-18 Water, Lube Oil, & Glycol Storage Tank																		
EQT 22	T-19 Condensate Storage Tank No. 1																		
EQT 23	T-20 Condensate Storage Tank No. 2																		
EQT 25	1-95 Compressor Engine																	2	
EQT 26	1-07 Caterpillar G3516 Generator Engine																	1	
EQT 27	2-07A Dehydrator No. 4 Reboiler																	2	
EQT 28	3-07 Caterpillar G3516TALE Comp. Engine																	1	
EQT 29	4-07A Dehydrator No. 5 Reboiler																	2	
EQT 30	4-07B Dehydrator No. 5 Still Column Vent																	1	
FUG 1	Fugitive Emissions																		

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KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
UNF 1	Comprehensive Toxic Air Pollution Program [LAC 33:III.5105.B.3.a]	EXEMPT. Emissions from the combustion of Group 1 virgin fossil fuels are exempt from the requirements of Subchapter A.
	Chemical Accident Prevention Provisions [40 CFR 68]	DOES NOT APPLY. The station contains no sources which produce, handle, process, or store substances listed in 40 CFR 68.130 in quantities greater than the listed threshold.
EQT 1, EQT 2, EQT 3, EQT4, EQT 30	Waste Gas Disposal [LAC 33:III.2115]	DOES NOT APPLY. This Section does not apply to waste gas streams that must meet control requirements of LAC 33:III.2116.
EQT 5	Compliance Assurance Monitoring [40 CFR 64.2(b)(i)]	EXEMPT. Thermal oxidizer complies with 40 CFR 63 Subpart HHH as a control device to the Glycol Dehydrators.
	Emission Standard for Sulfur Dioxide [LAC 33:III.1502.A.3]	DOES NOT APPLY. Thermal oxidizer does not emit or have the potential to emit greater than 5 tpy SO ₂ .

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 6, EQT 7, EQT 8, EQT 25	Emission Standard for Sulfur Dioxide [LAC 33:III.1502.A.3]	DOES NOT APPLY. Compressor engines do not emit or have the potential to emit greater than 5 tpy SO ₂ .
	Comprehensive Toxic Air Pollution Program [LAC 33:III.5105.B.3.a]	EXEMPT. Emissions from the combustion of Group 1 virgin fossil fuels are exempt from the requirements of Subchapter A.
	NESHAP Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines [40 CFR 63.590(b)(3)]	EXEMPT. Lean burn engines do no have to meet the requirements of NESHAP Subpart ZZZZ.
EQT 9, EQT 10, EQT 12, EQT 13, EQT 14, EQT 15, EQT 16, EQT 27, EQT 29	Emission Standard for Sulfur Dioxide [LAC 33:III.1502.A.3]	DOES NOT APPLY. Reboiler burners and process heaters do not emit or have the potential to emit greater than 5 tpy SO ₂ .
	NESHAP Subpart DDDDD – National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR 63.7506(c)(3)]	EXEMPT. The reboiler burners and process heaters have a heat rate less than 10 MM BTU/hr.
EQT 17, EQT 18	Volatile Organic Compounds – Loading [LAC 33:III.2107.A.1.a]	DOES NOT APPLY. Loading throughput of VOCs is less than 20,000 gallons per day

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 19, EQT 22, EQT 23	Storage of Volatile Compounds [LAC 33:III.2103.G.1]	DOES NOT APPLY. Storage tanks are located in an attainment area, used to store condensate, and have a storage capacity less than 420,000 gallons.
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Storage tanks have a capacity less than 75 m ³
EQT 20	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Storage tanks have a capacity less than 75 m ³
EQT 21	Storage of Volatile Compounds [LAC 33:III.2103.A]	DOES NOT APPLY. Storage tanks contain VOCs with a maximum true vapor pressure less than 1.5 psia.
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Storage tanks have a capacity less than 75 m ³

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 26	Emission Standard for Sulfur Dioxide [LAC 33:III.1502.A.3]	DOES NOT APPLY. Reboiler burners and process heaters do not emit or have the potential to emit greater than 5 tpy SO ₂ .
	Comprehensive Toxic Air Pollution Program [LAC 33:III.5105.B.3.a]	EXEMPT. Emissions from the combustion of Group 1 virgin fossil fuels are exempt from the requirements of Subchapter A.

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
 1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
 2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
 3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and

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4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
 1. the date, place as defined in the permit, and time of sampling or measurements;
 2. the date(s) analyses were performed;
 3. the company or entity that performed the analyses;
 4. the analytical techniques or methods used;
 5. the results of such analyses; and
 6. the operating conditions as existing at the time of sampling or measurement.
[Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an

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emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]

- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
 - 1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
 - 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
 - 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
 - 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
 - 5. changes in emissions would not qualify as a significant modification; and
 - 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
 - 1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 - 2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.

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3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
 - a. Report by June 30 to cover January through March
 - b. Report by September 30 to cover April through June
 - c. Report by December 31 to cover July through September
 - d. Report by March 31 to cover October through December
 4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]
- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
 2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
 3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
 4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
 5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
 6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]

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- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated July 5, 2007, along with supplemental information dated August 24, 2007, and August 30, 2007.
- IV. This permit shall become invalid, for the sources not constructed, if:
 - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
- B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
- C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
1. Report by June 30 to cover January through March
 2. Report by September 30 to cover April through June
 3. Report by December 31 to cover July through September
 4. Report by March 31 to cover October through December

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
 2. Cause of noncompliance;
 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
 - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
 - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
 - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:

1. Generally be less than 5 TPY
2. Be less than the minimum emission rate (MER)
3. Be scheduled daily, weekly, monthly, etc., or
4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

General Information

All ID: 13145 Unionville Storage Compressor Station
Activity Number: PER20070001
Permit Number: 1720-00014-V3
Air - Title V Regular Permit Major Mod

Also Known As:	ID	Name	User Group	Start Date
	1720-00014	Unionville Storage Compressor Station	CDS Number	04-30-1989
00595		Unionville Storage Compressor Station	Inactive & Abandoned Sites	11-23-1999
		Centerpoint Energy - Mississippi River Transmission Corp	Multimedia	10-01-2002
20762		Unionville Station	TE MPO Merge	07-08-2002
86499		Unionville Storage Compressor Station	TEMPO Merge	08-15-2001
			Main FAX:	3184293927
			Main Phone:	3184293706
Physical Location:			Phone (Type)	Relationship
		452 Golf Course Rd Dubach, LA 71235	walter.ferguson@cer	Responsible Official for
		PO Box 21734 Shreveport, LA 711511734	7132075128 (VP)	Responsible Official for
			aura.guthrie@center	Air Permit Contact For
			3184293706 (NP)	Air Permit Contact For
			3184293706 (VP)	Emission Inventory Contact for
			3184293927 (VP)	Emission Inventory Contact for
			aura.guthrie@center	Emission Inventory Contact for
			3184293927 (NP)	Air Permit Contact For
			3187773451 (NP)	Air Permit Contact For
Mailing Address:		Mailing Address	Phone (Type)	Relationship
		PO Box 21734 Shreveport, LA 711511734	walter.ferguson@cer	Responsible Official for
		PO Box 21734 Shreveport, LA 71151	7132075128 (VP)	Responsible Official for
		PO Box 21734 Shreveport, LA 711511734	aura.guthrie@center	Air Permit Contact For
		PO Box 21734 Shreveport, LA 711511734	3184293706 (NP)	Air Permit Contact For
		PO Box 21734 Shreveport, LA 711511734	3184293706 (VP)	Emission Inventory Contact for
		PO Box 21734 Shreveport, LA 711511734	3184293927 (VP)	Emission Inventory Contact for
		PO Box 21734 Shreveport, LA 711511734	aura.guthrie@center	Emission Inventory Contact for
		PO Box 21734 Shreveport, LA 711511734	3184293927 (NP)	Air Permit Contact For
		456 Golf Course Rd Dubach, LA 71235	3187773451 (NP)	Air Permit Contact For
Related People:	Name	Address	Phone (Type)	Relationship
	Walter Ferguson	PO Box 21734 Shreveport, LA 711511734	3184293036 (NP)	Air Billing Party for
	Walter Ferguson	PO Box 21734 Shreveport, LA 71151	3184293927 (NP)	Air Billing Party for
	Laurie Guthrie	PO Box 21734 Shreveport, LA 711511734	3184293036 (NP)	Operates
	Laurie Guthrie	PO Box 21734 Shreveport, LA 711511734	3184293927 (NP)	Operates
	Laurie Guthrie	PO Box 21734 Shreveport, LA 711511734	3184293036 (NP)	Owns
	Laurie Guthrie	PO Box 21734 Shreveport, LA 711511734	3184293927 (NP)	Owns
	Laurie Guthrie	PO Box 21734 Shreveport, LA 711511734	3184293036 (NP)	Emission Inventory Billing Party
	Tony Heard		3184293927 (NP)	Emission Inventory Billing Party
Related Organizations:	Name	Address	Phone (Type)	Relationship
	CenterPoint Energy - Mississippi River	PO Box 21734 Shreveport, LA 711511734	3184293036 (NP)	Air Billing Party for
	Transmission Corp	PO Box 21734 Shreveport, LA 711511734	3184293927 (NP)	Air Billing Party for
	CenterPoint Energy - Mississippi River	PO Box 21734 Shreveport, LA 711511734	3184293036 (NP)	Operates
	Transmission Corp	PO Box 21734 Shreveport, LA 711511734	3184293927 (NP)	Operates
	CenterPoint Energy - Mississippi River	PO Box 21734 Shreveport, LA 711511734	3184293036 (NP)	Owns
	Transmission Corp	PO Box 21734 Shreveport, LA 711511734	3184293927 (NP)	Owns
	CenterPoint Energy - Mississippi River	PO Box 21734 Shreveport, LA 711511734	3184293036 (NP)	Emission Inventory Billing Party
	Transmission Corp	PO Box 21734 Shreveport, LA 711511734	3184293927 (NP)	Emission Inventory Billing Party
	CenterPoint Energy - Mississippi River	PO Box 21734 Shreveport, LA 711511734	3184293036 (NP)	Emission Inventory Billing Party
	Transmission Corp	PO Box 21734 Shreveport, LA 711511734	3184293927 (NP)	Emission Inventory Billing Party
	CenterPoint Energy - Mississippi River	PO Box 21734 Shreveport, LA 711511734	3184293036 (NP)	Emission Inventory Billing Party
	Transmission Corp	PO Box 21734 Shreveport, LA 711511734	3184293927 (NP)	Emission Inventory Billing Party

General Information

AI ID: 13145 Unionville Storage Compressor Station
Activity Number: PER20070001
Permit Number: 1720-00014-V3
Air - Title V Regular Permit Major Mod

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit.
Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 13145 - Unionville Storage Compressor Station
Activity Number: PER2007/0001
Permit Number: 1720-00014-V3
Air - Title V Regular Permit Major Mod

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Unionville Storage Compressor Station						
EQT0001	4-74B - Dehydrator No. 2 Still Column Vent	165 MM ft ³ /day	165 MM ft ³ /day	165 MM ft ³ /day	8,760 hr/yr (All Year)	
EQT0002	5-74B - Dehydrator No. 3 Still Column Vent	165 MM ft ³ /day	165 MM ft ³ /day	165 MM ft ³ /day	8,760 hr/yr (All Year)	
EQT0003	1-87B - Dehydrator No. 1 Still Column Vent	200 MM ft ³ /day	200 MM ft ³ /day	165 MM ft ³ /day	8,760 hr/yr (All Year)	
EQT0004	1-90B - Dehydrator No. 4 Still Column Vent	165 MM ft ³ /day	165 MM ft ³ /day	165 MM ft ³ /day	8,760 hr/yr (All Year)	
EQT0005	1-02 - Glycol Dehydrator Thermal Oxidizer 4.06 MM BTU/hr	4.72 MM BTU/hr	4.72 MM BTU/hr	4.72 MM BTU/hr	8,760 hr/yr (All Year)	
EQT0006	1-69 - Compressor Engine	6500 horsepower	6500 horsepower	6500 horsepower	8,760 hr/yr (All Year)	
EQT0007	2-69 - Compressor Engine	6500 horsepower	6500 horsepower	6500 horsepower	8,760 hr/yr (All Year)	
EQT0008	1-74 - Compressor Engine	8000 horsepower	8000 horsepower	8000 horsepower	8,760 hr/yr (All Year)	
EQT0009	4-74A - Dehydrator No. 2 Reboiler	1.5 MM BTU/hr	1.5 MM BTU/hr	1.5 MM BTU/hr	8,760 hr/yr (All Year)	
EQT0010	5-74A - Dehydrator No. 3 Reboiler	1.5 MM BTU/hr	1.5 MM BTU/hr	1.5 MM BTU/hr	8,760 hr/yr (All Year)	
EQT0012	1-B7A - Dehydrator No. 1 Reboiler	3.5 MM BTU/hr	3.5 MM BTU/hr	3.5 MM BTU/hr	8,760 hr/yr (All Year)	
EQT0013	2-74 - Heater No. 3	7 MM BTU/hr	7 MM BTU/hr	7 MM BTU/hr	8,760 hr/yr (All Year)	
EQT0014	3-74 - Heater No. 4	7 MM BTU/hr	7 MM BTU/hr	7 MM BTU/hr	8,760 hr/yr (All Year)	
EQT0015	4-69 - Heater No. 1	8.8 MM BTU/hr	8.8 MM BTU/hr	8.8 MM BTU/hr	8,760 hr/yr (All Year)	
EQT0016	5-69 - Heater No. 2	8.8 MM BTU/hr	8.8 MM BTU/hr	8.8 MM BTU/hr	8,760 hr/yr (All Year)	
EQT0017	3-95 - Tank Truck Loading	7083 gallons/hr	7083 gallons/hr	7083 gallons/hr	8,760 hr/yr (All Year)	
EQT0018	2-98 - Tank Truck Loading for T-18	168000 gallons/yr	168000 gallons/yr	168000 gallons/yr	24 hr/yr (All Year)	
EQT0019	T-2 - Hydrocarbon Liquid Storage Tank	15230 gallons			8,760 hr/yr (All Year)	
EQT0020	T-17 - Methanol Storage Tank	8226 gallons			8,760 hr/yr (All Year)	
EQT0021	T-18 - Water, Lube Oil, and Glycol Storage Tank	16800 gallons			8,760 hr/yr (All Year)	
EQT0022	T-19 - Condensate Storage Tank No. 1	8820 gallons			8,760 hr/yr (All Year)	
EQT0023	T-20 - Condensate Storage Tank No. 2	8820 gallons			8,760 hr/yr (All Year)	
EQT0025	1-95 - Compressor Engine	2250 horsepower	2250 horsepower	2250 horsepower	7500 hr/yr (All Year)	
EQT0026	1-07 - Caterpillar 3516 Generator Engine	1340 horsepower	1340 horsepower	1340 horsepower	500 hr/yr (All Year)	
EQT0027	2-07 - Dehydrator No. 4 Reboiler	1.25 MM BTU/hr	1.25 MM BTU/hr	1.25 MM BTU/hr	8,760 hr/yr (All Year)	
EQT0028	3-07 - Caterpillar G3516TAE Compressor Engine w/ ox. cat.	1340 horsepower	1340 horsepower	1340 horsepower	8,760 hr/yr (All Year)	
EQT0029	4-07A - Dehydrator No. 5 Reboiler	1.5 MM BTU/hr	1.5 MM BTU/hr	1.5 MM BTU/hr	8,760 hr/yr (All Year)	
EQT0030	4-07B - Dehydrator No. 5 Still Column Vent	20 MM ft ³ /day	20 MM ft ³ /day	20 MM ft ³ /day	8,760 hr/yr (All Year)	
FUG0001	2-95 - Fugitive Emissions				8,760 hr/yr (All Year)	

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
Unionville Storage Compressor Station							
EQT0001	4-74B - Dehydrator No. 2 Still Column Vent	2.6	439	1.9		20	500
EQT0002	5-74B - Dehydrator No. 3 Still Column Vent	2.6	439	1.9		20	500
EQT0003	1-87B - Dehydrator No. 1 Still Column Vent	2.6	439	1.9		20	500
EQT0004	1-90B - Dehydrator No. 4 Still Column Vent	2.6	439	1.9		20	500
EQT0005	1-02 - Glycol Dehydrator Thermal Oxidizer 4.06 MM BTU/hr	9160	21.6	3		48	1500

INVENTORIES

AI ID: 13145 - Unionville Storage Compressor Station
Activity Number: PER20070001
Permit Number: 1720-00014-V3
Air - Title V Regular Permit Major Mod

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
Unionville Storage Compressor Station							
EQT0006	1-69 - Compressor Engine	.65	58800	4.4		37	630
EQT0007	2-69 - Compressor Engine	.65	58800	4.4		37	630
EQT0008	1-74 - Compressor Engine	122	111574	4.4		37	650
EQT0009	4-74A - Dehydrator No. 2 Reboiler	2.6	439	1.9		20	500
EQT0010	5-74A - Dehydrator No. 3 Reboiler	2.6	439	1.9		20	500
EQT0012	1-87A - Dehydrator No. 1 Reboiler	2.6	439	1.9		20	500
EQT0013	2-74 - Heater No. 3	.68	186	2.4		20	500
EQT0014	3-74 - Heater No. 4	.68	186	2.4		20	500
EQT0015	4-69 - Heater No. 1	.68	186	2.4		20	500
EQT0016	5-69 - Heater No. 2	.68	186	2.4		20	500
EDT0021	T-18 - Water, Lube Oil, and Glycol Storage Tank			.3		20	
EQT0022	T-19 - Condensate Storage Tank No. 1			.3		25	
EQT0023	T-20 - Condensate Storage Tank No. 2			.3		25	
EQT0025	1-95 - Compressor Engine	60.45	20259	2.7		32	534
EQT0026	1-07 - Caterpillar 3516 Generator Engine	234	7970	.85		25	852
EQT0027	2-07A - Dehydrator No. 4 Reboiler	2.6	439	1.9		20	500
EQT0028	3-07 - Caterpillar G3516TALE Compressor Engine w/ ox. cat.	234	7970	.85		25	852
EQT0029	4-07A - Dehydrator No. 5 Reboiler	10	100	1		15	200
EQT0030	4-07B - Dehydrator No. 5 Still Column Vent	10	100	1		15	200

Relationships:

ID	Description	Relationship	ID	Description
EQT0005	1-02 Glycol Dehydrator Thermal Oxidizer	Controls emissions from, (Vapors combusted at 1500 deg F with minimum residence time of 1 sec)	EQT0030	4-07B Dehydrator No. 5 Still Column Vent
EQT0005	1-02 Glycol Dehydrator Thermal Oxidizer	Controls emissions from, (Vapors combusted at 1500 deg F with minimum residence time of 1 sec)	EQT0001	4-74B Dehydrator No. 2 Still Column Vent
EQT0005	1-02 Glycol Dehydrator Thermal Oxidizer	Controls emissions from, (Vapors combusted at 1500 deg F with minimum residence time of 1 sec)	EQT0002	5-74B Dehydrator No. 3 Still Column Vent
EQT0005	1-02 Glycol Dehydrator Thermal Oxidizer	Controls emissions from, (Vapors combusted at 1500 deg F with minimum residence time of 1 sec)	EQT0003	1-87B Dehydrator No. 1 Still Column Vent
EQT0005	1-02 Glycol Dehydrator Thermal Oxidizer	Controls emissions from, (Vapors combusted at 1500 deg F with minimum residence time of 1 sec)	EQT0004	1-90B Dehydrator No. 4 Still Column Vent

INVENTORIES

AI ID: 13145 - Unionville Storage Compressor Station
 Activity Number: PER20070001
 Permit Number: 1720-00014-V3
 Air - Title V Regular Permit Major Mod

Subject Item Groups:

ID	Group Type	Group Description
CRG0001	Common Requirements Group	CRG1 - HHH Control Exempted Dehy Still Column Vents
CRG0002	Common Requirements Group	CRG2 - HHH Controlled Dehy Still Column Vents
CRG0003	Common Requirements Group	CRG3 - PEMS Compressor Engines
CRG0004	Common Requirements Group	CRG4 - Dehydrator Reboilers
CRG0005	Common Requirements Group	CRG5 - Heaters
GRP0004	Equipment Group	CAP - CEC Compressor Engine CAP
UNF0001	Unit or Facility Wide	Facility - Unionville Storage Compressor Station

Group Membership:

ID	Description	Member of Groups
EQT0001	4-74B - Dehydrator No. 2 Still Column Vent	CRG0000000001
EQT0002	5-74B - Dehydrator No. 3 Still Column Vent	CRG0000000001
EQT0003	1-87B - Dehydrator No. 1 Still Column Vent	CRG0000000002
EQT0004	1-90B - Dehydration No. 4 Still Column Vent	CRG0000000001
EQT0006	1-69 - Compressor Engine	CRG0000000003, GRP0000000004
EQT0007	2-69 - Compressor Engine	CRG0000000003, GRP0000000004
EQT0008	1-74 - Compressor Engine	CRG0000000003, GRP0000000004
EQT0009	4-74A - Dehydrator No. 2 Reboiler	CRG0000000004
EQT0010	5-74A - Dehydrator No. 3 Reboiler	CRG0000000004
EQT0012	1-87A - Dehydrator No. 1 Reboiler	CRG0000000004
EQT0013	2-74 - Heater No. 3	CRG0000000005
EQT0014	3-74 - Heater No. 4	CRG0000000005
EQT0015	4-69 - Heater No. 1	CRG0000000005
EQT0016	5-69 - Heater No. 2	CRG0000000005
EQT0027	2-07A - Dehydrator No. 4 Reboiler	CRG0000000004
EQT0029	4-07A - Dehydrator No. 5 Reboiler	CRG0000000004
EQT0030	4-07B - Dehydrator No. 5 Still Column Vent	CRG0000000002

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multplier	Units Of Measure
1450	Recip. Nat Gas Comp (20,000 to 50,000 HP)	245.9	100 hp

SIC Codes:

4922	Natural gas transmission	AI13145
4922	Natural gas transmission	UNF001

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 13145 - Unionville Storage Compressor Station

Activity Number: PER20070001

Permit Number: 1720-00014-V3

Air - Title V Regular Permit Major Mod

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
Unionville Storage Compressor Station															
EQT 0001 4-74B															
EQT 0002 5-74B															
EQT 0003 1-87B															
EQT 0004 1-80B															
EQT 0005 1-92	0.36	0.36	1.59	0.43	0.43	1.89	0.03	0.03	0.14	<0.01	<0.01	0.01	0.02	0.02	0.10
EQT 0006 1-98		57.50			202.90		<0.01	<0.01	0.04	0.04	0.04	0.16			3.44
EQT 0007 2-89		57.50		202.90		<0.01	<0.01	<0.01	0.04	0.04	0.04	0.16			3.44
EQT 0008 1-74		67.70			240.00		<0.01	<0.01	0.05	0.05	0.05	0.21			4.20
EQT 0009 4-74A	0.13	0.13	0.55	0.15	0.15	0.66	0.01	0.01	0.05	0.001	0.001	0.004	0.01	0.01	0.04
EQT 0010 5-74A	0.13	0.13	0.55	0.15	0.15	0.66	0.01	0.01	0.05	0.001	0.001	0.004	0.01	0.01	0.04
EQT 0012 1-87A	0.29	0.29	1.29	0.35	0.35	1.53	0.03	0.03	0.12	0.002	0.002	0.009	0.02	0.02	0.08
EQT 0013 2-74	0.59	0.59	2.58	0.70	0.70	3.07	0.06	0.06	0.23	0.004	0.004	0.018	0.04	0.04	0.17
EQT 0014 3-74	0.59	0.59	2.58	0.70	0.70	3.07	0.06	0.06	0.23	0.004	0.004	0.018	0.04	0.04	0.17
EQT 0015 4-69	0.74	0.74	3.24	0.88	0.88	3.85	0.07	0.07	0.29	0.005	0.005	0.023	0.05	0.05	0.21
EQT 0016 5-69	0.74	0.74	3.24	0.88	0.88	3.85	0.07	0.07	0.29	0.005	0.005	0.023	0.05	0.05	0.21
EQT 0017 3-85													0.27	97.39	1.16
EQT 0018 2-98													9.91	9.91	0.12
EQT 0019 1-2													0.51	0.51	2.23
EQT 0020 1-17													0.03	0.03	0.12
EQT 0021 1-18													0.08	0.08	0.36
EQT 0022 1-19													0.33	0.33	1.46
EQT 0023 1-20													0.33	0.33	1.46
EQT 0025 1-95	10.36	10.36	38.85	10.36	10.36	38.85	<0.01	<0.01	0.01	0.01	0.01	0.04	4.82	4.82	18.08

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 13145 - Unionville Storage Compressor Station
Activity Number: PER20070001
Permit Number: 1720-00014-V3
Air - Title V Regular Permit Major Mod

Subject Item	CO			NOx			PM10			SO2			VOC			
	Avg lb/hr	Max lb/hr	Tons/hr	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	
Unionville Storage Compressor Station																
EQT 0026 1-07	5.61	6.73	1.40	4.43	5.31	1.11	0.10	0.12	0.03	0.01	0.01	<0.01	1.36	1.63	0.34	
EQT 0027 2-07A	0.11	0.11	0.46	0.13	0.13	0.55	0.01	0.01	0.04	<0.01	<0.01	<0.01	0.01	0.01	0.03	
EQT 0028 3-07	0.53	0.64	2.33	7.08	8.50	31.03	0.10	0.12	0.44	0.01	0.01	0.03	-	1.30	1.56	5.69
EQT 0029 4-07A	0.13	0.13	0.55	0.15	0.15	0.66	0.01	0.01	0.05	<0.01	<0.01	<0.01	0.01	0.01	0.01	0.04
EQT 0030 4-07B														0.59	0.59	2.59
FUG 0001 2-95														11.71	11.71	51.31
GRP 0004 CAP	82.77		274.95	200.36		877.60							8.16		35.72	

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 13145 - Unionville Storage Compressor Station

Activity Number: PER20070001

Permit Number: 1720-00014-V3

Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0001 4-74B	Benzene	0.19	0.19	0.82
	Ethyl benzene	0.02	0.02	0.09
	Toluene	0.03	0.03	0.14
	Xylene (mixed isomers)	0.09	0.09	0.41
	n-Hexane	0.01	0.01	0.04
EQT 0002 5-74B	Benzene	0.19	0.19	0.82
	Ethyl benzene	0.02	0.02	0.09
	Toluene	0.03	0.03	0.14
	Xylene (mixed isomers)	0.09	0.09	0.41
	n-Hexane	0.01	0.01	0.04
EQT 0003 1-87B	Benzene	0.23	0.23	1.02
	Ethyl benzene	0.03	0.03	0.14
	Toluene	0.04	0.04	0.19
	Xylene (mixed isomers)	0.15	0.15	0.64
	n-Hexane	0.01	0.01	0.06
EQT 0004 1-90B	Benzene	0.19	0.19	0.82
	Ethyl benzene	0.02	0.02	0.09
	Toluene	0.03	0.03	0.14
	Xylene (mixed isomers)	0.09	0.09	0.41
	n-Hexane	0.01	0.01	0.04
EQT 0006 1-69	Acetaldehyde		0.30	
	Benzene		0.18	
	Ethyl benzene		0.02	
	Formaldehyde		3.22	
	Methanol		0.20	
	Toluene		0.20	
	Xylene (mixed isomers)		0.20	
	n-Hexane		0.99	
EQT 0007 2-69	Acetaldehyde		0.30	
	Benzene		0.18	
	Ethyl benzene		0.02	
	Formaldehyde		3.22	
	Methanol		0.20	
	Toluene		0.20	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 13145 - Unionville Storage Compressor Station

Activity Number: PER20070001

Permit Number: 1720-00014-V3

Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0007 2-69	Xylene (mixed isomers)		0.20	
	n-Hexane		0.99	
EQT 0008 1-74	Acetaldehyde		0.30	
	Benzene		0.18	
	Ethyl benzene		0.02	
	Formaldehyde		3.22	
	Methanol		0.20	
	Toluene		0.20	
	Xylene (mixed isomers)		0.20	
	n-Hexane		0.99	
EQT 0025 1-95	Acetaldehyde	0.04	0.04	0.16
	Benzene	0.005	0.005	0.02
	Ethyl benzene	0.01	0.01	0.03
	Formaldehyde	0.45	0.45	1.97
	Methanol	0.04	0.04	0.16
	Toluene	0.03	0.03	0.11
	Xylene (mixed isomers)	0.01	0.01	0.05
	n-Hexane	0.01	0.01	0.05
EQT 0026 1-07	Acetaldehyde	0.09	0.10	0.02
	Acrolein	0.05	0.06	0.013
	Benzene	0.004	0.005	0.001
	Formaldehyde	0.54	0.64	0.13
	Methanol	0.03	0.03	0.006
EQT 0028 3-07	Acetaldehyde	0.09	0.10	0.37
	Acrolein	0.05	0.06	0.23
	Benzene	0.004	0.005	0.02
	Formaldehyde	0.24	0.28	1.03
	Methanol	0.03	0.03	0.11
	Toluene	0.004	0.005	0.02
EQT 0030 4-07B	Benzene	0.23	0.23	1.02
	Toluene	0.02	0.02	0.09
	n-Hexane	0.03	0.03	0.13
FUG 0001 2-95	Benzene	0.04	0.04	0.17
	Ethyl benzene	0.005	0.005	0.022

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 13145 - Unionville Storage Compressor Station

Activity Number: PER20070001

Permit Number: 1720-00014-V3

Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
FUG 0001 2-95	Toluene	0.02	0.02	0.09
	Xylene (mixed isomers)	0.005	0.005	0.022
	n-Hexane	0.12	0.12	0.53
GRP 0004 CAP	Acetaldehyde	0.30		1.49
	Benzene	0.12		0.53
	Ethyl benzene	0.01		0.05
	Formaldehyde	3.22		14.09
	Methanol	0.20		0.90
	Toluene	0.13		0.56
	Xylene (mixed isomers)	0.18		0.79
	n-Hexane	0.25		0.99
UNF 0001 Facility	Acetaldehyde			2.04
	Acrolein			0.243
	Benzene			5.233
	Ethyl benzene			0.519
	Formaldehyde			17.22
	Methanol			1.296
	Toluene			1.488
	Xylene (mixed isomers)			2.717
	n-Hexane			1.889

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

SPECIFIC REQUIREMENTS

AI ID: 13145 - Unionville Storage Compressor Station
Activity Number: PER20070001
Permit Number: 1720-00014-V3
Air - Title V Regular Permit Major Mod

CRG0001 HHH Control Exempt Dehy Still Column Vents

Group Members: EQT0001 EQT0002 EQT0004

- 1 [40 CFR 63.1270(d)(1)] Achieve compliance with 40 CFR 63 Subpart HHH 3 years after becoming a major source. Subpart HHH. (The facility has now been a major source for 3 years or more and shall achieve compliance with 40 CFR Subpart HHH immediately). [40 CFR 63.1270(d)(1)] Determine actual average benzene emissions using the model GRI-GL YCalc, Version 3.0 or higher, and the procedures presented in the associated GRI-GL YCalc Technical Reference Manual. Subpart HHH. [40 CFR 63.1282(a)(2)(i)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain the records specified in 40 CFR 63.1284(d)(1) or (d)(2), as appropriate, for each glycol dehydration unit that is not controlled according to the requirements of 40 CFR 63.1274(c). Subpart HHH. [40 CFR 63.1284(d)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in 40 CFR 63.1284(b) through (e). Subpart HHH.
- 2 [40 CFR 63.1282(a)(2)(i)] VOC, Total \geq 85 % reduction using a control device. Demonstrate percent reduction using the methods found in LAC 33:III.2116.D. Which Months: All Year Statistical Basis: None specified
- 3 [40 CFR 63.1284(d)] Determine compliance with LAC 33:III.2116.B using the methods in LAC 33:III.2116.D.1-5, as appropriate.
- 4 [40 CFR 63.1284] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of the information specified in LAC 33:III.2116.F.1.
- 5 [LAC 33:III.2116.B.2]
- 6 [LAC 33:III.2116.D]
- 7 [LAC 33:III.2116.F.1]

CRG0002 HHH Controlled Dehy Still Column Vents

Group Members: EQT0003 EQT0030

- 8 [40 CFR 63.1270(d)(2)] Achieve compliance with 40 CFR 63 Subpart HHH immediately upon initial startup or June 17, 1999, whichever date is later. Subpart HHH. [40 CFR 63.1270(d)(2)] Control air emissions by connecting the process vent to a control device or a combination of control devices through a closed-vent system. The closed-vent system shall be designed and operated in accordance with the requirements of 40 CFR 63.1281(c). The control device(s) shall be designed and operated in accordance with the requirements of 40 CFR 63.1281(d). Subpart HHH. [40 CFR 63.1275(b)(1)(i)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in 40 CFR 63.1284(b) through (e). Subpart HHH.
- 9 [40 CFR 63.1275(b)(1)(i)] VOC, Total \geq 85 % reduction using a control device. Demonstrate percent reduction using the methods found in LAC 33:III.2116.D. Which Months: All Year Statistical Basis: None specified
- 10 [40 CFR 63.1284] Determine compliance with LAC 33:III.2116.B using the methods in LAC 33:III.2116.D.1-5, as appropriate.
- 11 [LAC 33:III.2116.B.2] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of the information specified in LAC 33:III.2116.F.1.
- 12 [LAC 33:III.2116.D]
- 13 [LAC 33:III.2116.F.1]

CRG0003 PEMS Compressor Engines

Group Members: EQT0006 EQT0007 EQT0008

SPECIFIC REQUIREMENTS

AI ID: 13145 - Unionville Storage Compressor Station
Activity Number: PER20070001
Permit Number: 1720-00014-V3
Air - Title V Regular Permit Major Mod

CRG0003 PEMS Compressor Engines

- 14 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: Six-minute average
- 15 [LAC 33:III.501.C.6] Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- 16 [LAC 33:III.501.C.6] Equipment/operational data recordkeeping by electronic or hard copy daily at manned stations, otherwise weekly. Recorded parameters are intake manifold temperature and pressure, fuel header pressure, engine speed, and spark ignition timing.
- 17 [LAC 33:III.501.C.6] In lieu of semiannual testing of the compressor engine, permittee shall monitor compressors by recording the following parameters for natural gas fired engines:
- a. Intake manifold temperature
 - b. Intake manifold pressure
 - c. Fuel flow
 - d. Engine speed
 - e. Spark ignition timing
- Based on these data, the engine geometry (bore, stroke, etc.) and the fuel composition, the PBCM will continuously calculate a trapped fuel/air equivalence ratio. Then, emission levels will be calculated based on a correlation developed from a data base of trapped fuel/air equivalence ratios and emission values.
- 18 [LAC 33:III.501.C.6] In the event that EQT 6 - 1-69, Compressor Engine; EQT 7 - 2-69, Compressor Engine; and/or EQT 8 - 1-74, Compressor Engine are overhauled, permittee shall demonstrate compliance with the NOX and CO emission limits of this permit by performing a stack test on the engine. Test Methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Alternate stack test methods may be used with prior approval of the Office of Environmental Assessment, Environmental Technology Division.
- 19 [LAC 33:III.501.C.6] Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing.
- 20 [LAC 33:III.501.C.6] Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services.

CRG0004 Dehydrator Reboilers

Group Members: EQT0099 EQT0010 EQT0012 EQT0027 EQT0029

SPECIFIC REQUIREMENTS**AI ID: 13145 - Unionville Storage Compressor Station****Activity Number: PER20070001****Permit Number: 1720-00014-V3****Air - Title V Regular Permit Major Mod****CRG0004 Dehydrator Reboilers**

- 21 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified
- 22 [LAC 33:III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified

CRG0005 Heaters

Group Members: EQT0013 EQT0014 EQT0015 EQT0016

- 23 [40 CFR 63.7506(c)(3)] Any existing small gaseous fuel boilers and process heaters are not subject to the initial notification requirements in 40 CFR 63.9(b) and are not subject to any requirements in this subpart or in subpart A of this part. [40 CFR 63.7506(c)(3)]
Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified
- 24 [LAC 33:III.1101.B] Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified
- 25 [LAC 33:III.1313.C]

EQT0005 1-02 Glycol Dehydrator Thermal Oxidizer

- 26 [40 CFR 63.1270(d)(2)] Achieve compliance with 40 CFR 63 Subpart HHH immediately upon initial startup or June 17, 1999, whichever date is later. Subpart HHH.
[40 CFR 63.1270(d)(2)]
Design and operate in accordance with the requirements of 40 CFR 63.1281(d). Subpart HHH. [40 CFR 63.1275(b)(1)(i)]
Closed-vent system: Design and operate in accordance with the requirements of 40 CFR 63.1281(c). Subpart HHH. [40 CFR 63.1275(b)(1)]
Closed-vent system: Route all gases, vapors, and fumes emitted from the material in a HAP emissions unit to a control device that meets the requirements specified in 40 CFR 63.1281(d). Subpart HHH. [40 CFR 63.1281(c)(1)]
Closed-vent system: Design and operate with no detectable emissions, as determined by 40 CFR 63.1282(b). Subpart HHH. [40 CFR 63.1281(c)(2)]
Total Organic Compounds (TOC) or HAP >= 95 % reduction by weight or <= 20 ppmv on a dry basis corrected to 3 percent oxygen, as determined in accordance with the requirements of 40 CFR 63.1282(d); or Residence time >= 0.5 seconds at a minimum temperature of 760 degrees C. Subpart HHH. [40 CFR 63.1281(d)(1)(i)]
Which Months: All Year Statistical Basis: None specified
Operate at all times when gases, vapors, and fumes are vented from the emissions unit or units through the closed-vent system to the control device, as required under 40 CFR 63.1275, except when maintenance or repair on a unit cannot be completed without a shutdown of the control device. Subpart HHH. [40 CFR 63.1281(d)(4)(i)]
Demonstrate compliance with the monitoring requirements of 40 CFR 63.1283(d) according to the requirements of 40 CFR 63.1282(e) or (f), as applicable. Subpart HHH. [40 CFR 63.1281(d)(4)(ii)]

SPECIFIC REQUIREMENTS

AI ID: 13145 - Unionville Storage Compressor Station
 Activity Number: PER20070001
 Permit Number: 1720-00014-V3
 Air - Title V Regular Permit Major Mod

EQT0005 1-02 Glycol Dehydrator Thermal Oxidizer

- 34 [40 CFR 63.1282(d)(4)] Demonstrate that the control device meets the requirements of 40 CFR 63.1281(d)(1) or (e)(3)(ii) by conducting a design analysis meeting the requirements of 40 CFR 63.1282(d)(4)(i) and (d)(4)(ii). Submit documentation of the design analysis as a part of the Notification of Compliance Status Report as required in 40 CFR 63.1285(d)(1)(i). Subpart HHH. [40 CFR 63.1282(d)(4)] Establish a site specific maximum or minimum monitoring parameter value (as appropriate) according to the requirements of 40 CFR 63.1283(d)(5)(i). Subpart HHH. [40 CFR 63.1282(e)(1)] Calculate the daily average of the applicable monitored parameter in accordance with 40 CFR 63.1283(d)(4). Subpart HHH. [40 CFR 63.1282(e)(2)] Closed-vent system (joints, seam, or other connections that are permanently or semi-permanently sealed): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21, once initially according to the specified in 40 CFR 63.1282(b) to demonstrate that the closed-vent system operates with no detectable emissions. Submit inspection results with the Notification of Compliance Status Report as specified in 40 CFR 63.1285(d)(1) or (d)(2). Subpart HHH. [40 CFR 63.1283(c)(2)(i)(A)] Which Months: All Year Statistical Basis: None specified Closed-vent system (joints, seam, or other connections that are permanently or semi-permanently sealed): Equipment/operational data monitored by visual inspection/determination annually for defects that could result in air emissions. Submit inspection results in the Periodic Report as specified in 40 CFR 63.1285(e)(2)(iii). Subpart HHH. [40 CFR 63.1283(c)(2)(i)(B)] Which Months: All Year Statistical Basis: None specified Closed-vent system (joints, seam, or other connections that are permanently or semi-permanently sealed): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of component or connection repair or replacement or connection unsealing, to demonstrate that it operates with no detectable emissions. Use the procedures in 40 CFR 63.1282(b). Submit inspection results in the Periodic Report as specified in 40 CFR 63.1285(e)(2)(iii). Subpart HHH. [40 CFR 63.1283(c)(2)(i)(B)] Which Months: All Year Statistical Basis: None specified Closed-vent system (components other than those in 40 CFR 63.1283(c)(2)(i)): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures specified in 40 CFR 63.1282(b) to demonstrate that the closed-vent system operates with no detectable emissions. Submit inspection results with the Notification of Compliance Status Report as specified in 40 CFR 63.1285(d)(1) or (d)(2). Subpart HHH. [40 CFR 63.1283(c)(2)(i)(A)] Which Months: All Year Statistical Basis: None specified Closed-vent system (components other than those in 40 CFR 63.1283(c)(2)(i)): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually according to the procedures specified in 40 CFR 63.1282(b) to demonstrate that the components or connections operate with no detectable emissions. Submit inspection results in the Periodic Report as specified in 40 CFR 63.1285(e)(2)(iii). Subpart HHH. [40 CFR 63.1283(c)(2)(i)(B)] Which Months: All Year Statistical Basis: None specified Closed-vent system (components other than those in 40 CFR 63.1283(c)(2)(i)): Equipment/operational data monitored by visual inspection/determination annually for defects that could result in air emissions. Submit inspection results in the Periodic Report as specified in 40 CFR 63.1285(e)(2)(iii). Subpart HHH. [40 CFR 63.1283(c)(2)(i)(C)] Which Months: All Year Statistical Basis: None specified Closed-vent system: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.1283(c)(4). Subpart HHH. [40 CFR 63.1283(c)(3)]

SPECIFIC REQUIREMENTS

AI ID: 13145 - Unionville Storage Compressor Station
Activity Number: PER2007001
Permit Number: 1720-00014-V3
Air - Title V Regular Permit Major Mod

EQT0005 1-02 Glycol Dehydrator Thermal Oxidizer

- 44 [40 CFR 63.1283(c)(5)(i)] Closed-vent system (unsafe-to-inspect): Determine that the equipment is unsafe to inspect because inspecting personnel would be exposed to an imminent or potential danger as a consequence of complying with 40 CFR 63.1283(c)(2)(i) or (c)(2)(ii). Subpart HHH. [40 CFR 63.1283(c)(5)(i)]
- 45 [40 CFR 63.1283(c)(5)(i)] Cover (unsafe-to-inspect): Determine that the equipment is unsafe to inspect because inspecting personnel would be exposed to an imminent or potential danger as a consequence of complying with 40 CFR 63.1283(c)(2)(i) or (c)(2)(ii). Subpart HHH. [40 CFR 63.1283(c)(5)(i)]
- 46 [40 CFR 63.1283(c)(5)(ii)] Closed-vent system (unsafe-to-inspect): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires inspection of the equipment as frequently as practicable during safe-to-inspect times. Subpart HHH. [40 CFR 63.1283(c)(5)(ii)]
- 47 [40 CFR 63.1283(c)(5)(ii)] Which Months: All Year Statistical Basis: None specified Cover (unsafe-to-inspect): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires inspection of the equipment as frequently as practicable during safe-to-inspect times. Subpart HHH. [40 CFR 63.1283(c)(5)(ii)]
- 48 [40 CFR 63.1283(c)(6)(i)] Which Months: All Year Statistical Basis: None specified Closed-vent system (difficult-to-inspect): Determine that the equipment cannot be inspected without elevating the inspecting personnel more than two meters above a support surface. Subpart HHH. [40 CFR 63.1283(c)(6)(i)]
- 49 [40 CFR 63.1283(c)(6)(i)] Cover (difficult-to-inspect): Determine that the equipment cannot be inspected without elevating the inspecting personnel more than two meters above a support surface. Subpart HHH. [40 CFR 63.1283(c)(6)(i)]
- 50 [40 CFR 63.1283(c)(6)(ii)] Closed-vent system (difficult-to-inspect): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 once every five years. Maintain a written plan that requires inspection of the equipment at least once every five years. Subpart HHH. [40 CFR 63.1283(c)(6)(ii)]
- 51 [40 CFR 63.1283(c)(6)(ii)] Which Months: All Year Statistical Basis: None specified Cover (difficult-to-inspect): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 once every five years. Maintain a written plan that requires inspection of the equipment at least once every five years. Subpart HHH. [40 CFR 63.1283(c)(6)(ii)]
- 52 [40 CFR 63.1283(d)(3)(i)(A)] Which Months: All Year Statistical Basis: None specified Temperature monitored by temperature monitoring device continuously, as specified. Subpart HHH. [40 CFR 63.1283(d)(3)(i)(A)]
- 53 [40 CFR 63.1283(d)(3)(i)(A)] Temperature recordkeeping by electronic or hard copy continuously. Subpart HHH. [40 CFR 63.1283(d)(3)(i)(A)]
- 54 [40 CFR 63.1283(d)(4)] Calculate the daily average value for each monitored operating parameter for each operating day using the data recorded by the monitoring system. Subpart HHH. [40 CFR 63.1283(d)(4)]
- 55 [40 CFR 63.1283(d)(5)(i)] Establish a minimum operating parameter value, as appropriate for the control device, to define the conditions at which the control device must be operated to continuously achieve the applicable performance requirements of 40 CFR 63.1281(e)(1) or 40 CFR 63.1281(e)(3)(ii). Establish operating parameter values as specified in 40 CFR 63.1283(d)(5)(i)(A) and (d)(5)(i)(B). [40 CFR 63.1283(d)(5)(i)]
- 56 [40 CFR 63.1284] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in 40 CFR 63.1284(b) through (e). Subpart HHH.
- 57 [LAC 33.III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 13145 - Unionville Storage Compressor Station
 Activity Number: PER20070001
 Permit Number: 1720-00014-V3
 Air - Title V Regular Permit Major Mod

EQT0005 1-02 Glycol Dehydrator Thermal Oxidizer

- 58 [LAC 33:III.13.13.C] Total suspended particulate $\leq 0.6 \text{ lb/MMBTU}$ of heat input (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
- 59 [LAC 33:III.2116.B.2] VOC, Total $\geq 85\%$ reduction. Demonstrate percent reduction using the methods found in LAC 33:III.2116.D.
 Which Months: All Year Statistical Basis: None specified
- 60 [LAC 33:III.2116.B.3] Fuel Heat content $> 300 \text{ BTU/scf}$.
 Which Months: All Year Statistical Basis: None specified
- 61 [LAC 33:III.2116.B.3] Presence of a flame monitored by visual inspection/determination daily.
 Which Months: All Year Statistical Basis: None specified
- 62 [LAC 33:III.2116.D] Determine compliance with LAC 33:III.2116.B using the methods in LAC 33:III.2116.D.1-5, as appropriate.
 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of the information specified in LAC 33:III.2116.F.1 and 2.
- 63 [LAC 33:III.2116.F] According to the Authorization To Construct/Approval to Operate issued to MRT on July 30, 2002, MRT shall reroute the vapors from EQT 1 - 4-74B, Dehydrator No. 2, Still Column Vent, EQT 2 - 5-74B, Dehydrator No. 3 Still Column Vent, EQT 3 - 1-87B, Dehydrator No. 1 Still Column Vent, EQT 4 - 1-90B, Dehydrator No. 4 Still Column Vent; to EQT 5 - 1-02, Glycol Dehydrator Thermal Oxidizer. EQT 5 - 1-02, Glycol Dehydrator Thermal Oxidizer will have a design operating temperature of 1500 deg F and a minimum residence time of 1 second. This shall provide a control efficiency of 99% or greater of all HAP emissions from the glycol dehydrator still column vents.

EQT0020 T-17 Methanol Storage Tank

- 65 [LAC 33:III.2103.A] Equip with a submerged fill pipe.
 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3-a-e.
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT0025 1-95 Compressor Engine

- 68 [LAC 33:III.1311.C] Opacity ≤ 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: Six-minute average
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.
- 69 [LAC 33:III.1513]

SPECIFIC REQUIREMENTS

AI ID: 13145 - Unionville Storage Compressor Station

Activity Number: PER20070001

Permit Number: 1720-00014-V3

Air - Title V Regular Permit Major Mod

EQT0025 1-95 Compressor Engine

70 [LAC 33:III.501.C.6]

Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shakedown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

Equipment/operational data recordkeeping by electronic or hard copy semiannually. Recorded parameters are NO_x, CO and O₂ concentrations in the stack gas obtained during semiannual testing.

In the event that EQT 25 - 1-95, Compressor Engine, is overhauled, permittee shall demonstrate compliance with the NO_x and CO emission limits of this permit by performing a stack test on the engine. Test Methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Alternate stack test methods may be used with prior approval of the the Office of Environmental Assessment, Environmental Technology Division.

Operating time <= 7500 hr/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the total engine operating time exceeds the maximum listed in this specific condition for any twelve consecutive month period.

Which Months: All Year Statistical Basis: None specified

Operating time monitored by technically sound method continuously.

Which Months: All Year Statistical Basis: None specified

Operating time recordkeeping by electronic or hard copy monthly. Keep records of the total the total engine operating time each month, as well as the total the total engine operating time for the last twelve months. Make records available for inspection by DEQ personnel.

Stack gas concentration: Carbon monoxide monitored by portable analyzer semiannually (six months after the stack test or previous semiannual test, plus or minus 30 days). Maintain concentrations of CO in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.

Which Months: All Year Statistical Basis: None specified

Stack gas concentration: Nitrogen oxides monitored by portable analyzer semiannually (six months after the stack test or previous semiannual test, plus or minus 30 days). Maintain concentrations of NO_x in the same range as during the initial stack test. Calibrate portable analyzers before each test before each test using a known reference gas sample.

Which Months: All Year Statistical Basis: None specified

Stack gas concentration: Oxygen monitored by portable analyzer semiannually (six months after the stack test or previous semiannual test, plus or minus 30 days). Maintain concentrations of O₂ in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.

Which Months: All Year Statistical Basis: None specified

Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing.

SPECIFIC REQUIREMENTS**AI ID:** 13145 - Unionville Storage Compressor Station**Activity Number:** PER20070001**Permit Number:** 1720-00014-V3**Air - Title V Regular Permit Major Mod****EQT0025 1-95 Compressor Engine**

80 [LAC 33.III.501.C.6]

Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services.

Submit report: Due annually, by the 31st of March. Report the total engine operating time for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.

EQT0026 1-07 Caterpillar 3516 Generator Engine

82 [40 CFR 63.6590(b)]

Permittee shall comply with the initial notification requirements of 40 CFR 63.6645(d). Subpart ZZZZ. (Complied with requirement on July 5, 2007, upon submittal of permit application). [40 CFR 63.6590(b)]

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: Six-minute average

EQT0028 3-07 Caterpillar G3516TALE Compressor Engine w/ ox. cat.

84 [40 CFR 63.6600(b)]

Carbon monoxide >= 93 % reduction. Subpart ZZZZ. [40 CFR 63.6600(b)]

Which Months: All Year Statistical Basis: None specified

Formaldehyde <= 14 ppmvd at 15% oxygen. Subpart ZZZZ. [40 CFR 63.6600(b)]

Which Months: All Year Statistical Basis: None specified

Maintain catalyst so that the pressure drop across the catalyst does not change by more than two inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst that was measured during the initial performance test. Subpart ZZZZ. [40 CFR 63.6600(b)]

Temperature >= 450 and <= 1350 F at catalyst inlet. Subpart ZZZZ. [40 CFR 63.6600(b)]

Which Months: All Year Statistical Basis: None specified

Be in compliance with emission limitations in 40 CFR 63 Subpart ZZZZ at all times, except during periods of startup, shutdown and malfunction. Subpart ZZZZ. [40 CFR 63.6605(a)]

Operate and maintain in a manner consistent with good air pollution control practices for minimizing emissions at all times, including during startup, shutdown, and malfunction. Subpart ZZZZ. [40 CFR 63.6605(b)]

Conduct subsequent performance tests semiannually. Subpart ZZZZ.

Conduct each applicable performance test in 40 CFR 63 Subpart ZZZZ Tables 3 and 4. Subpart ZZZZ. [40 CFR 63.6620(a)]

Conduct each performance test according to the requirements in 40 CFR 63.7(e)(1) and under the specific conditions in 40 CFR 63 Subpart ZZZZ Table 4. Subpart ZZZZ. [40 CFR 63.6620(b)]

Determine compliance with the percent reduction requirement using equation 1 in 40 CFR 63.6620. Subpart ZZZZ. [40 CFR 63.6620(e)]

Determine the engine percent load during a performance test by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. Subpart ZZZZ. [40 CFR 63.6620(i)]

SPECIFIC REQUIREMENTS

AI ID: 13145 - Unionville Storage Compressor Station
 Activity Number: PER20070001
 Permit Number: 1720-00014-V3
 Air - Title V Regular Permit Major Mod

EQT0028 3-07 Caterpillar G3516TALE Compressor Engine w/ ox. cat.

- 95 [40 CFR 63.6620(i)]
 Include a written report of the average percent load determination in the notification of compliance status. Include the following information:
 the engine model number, the engine manufacturer, the year of purchase, the manufacturer's site-rated brake horsepower, the ambient temperature, pressure, and humidity during the performance test, and all assumptions that were made to estimate or calculate percent load during the performance test must be clearly explained. If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, provide the model number of the measurement device, and an estimate of its accurate in percentage of true value. Subpart ZZZZ. [40 CFR 63.6620(i)]
- 96 [40 CFR 63.6625(b)]
 Equipment/operational data monitored by continuous parameter monitoring system (CPMS) continuously according to the requirements in 40 CFR 63.8 and 40 CFR 63 Subpart ZZZZ Table 5. Subpart ZZZZ. [40 CFR 63.6625(b)]
- 97 [40 CFR 63.6630(a)]
 Which Months: All Year ; Statistical Basis: None specified
 Demonstrate initial compliance with each applicable emission and operating limitation according to 40 CFR 63 Subpart ZZZZ Table 5. Subpart ZZZZ. [40 CFR 63.6630(a)]
- 98 [40 CFR 63.6630(b)]
 Establish each applicable operating limitation in 40 CFR 63 Subpart ZZZZ Tables 1b and 2b during the initial performance test. Subpart ZZZZ. [40 CFR 63.6630(b)]
- 99 [40 CFR 63.6640(a)]
 Demonstrate continuous compliance with each applicable emission limitation and operating limitation in 40 CFR 63 Subpart ZZZZ Tables 1a and 1b and Tables 2a and 2b according to methods specified in 40 CFR 63 Subpart ZZZZ Table 6. Subpart ZZZZ. [40 CFR 63.6640(a)]
- 100 [40 CFR 63.6640(b)]
 Conduct a performance test to demonstrate that the required emission limitation applicable are being met, if the values of the operating parameters are reestablished. Subpart ZZZZ. [40 CFR 63.6640(b)]
- 101 [40 CFR 63.6640(b)]
 Reestablish the values of the operating parameters measured during the initial performance test, if the catalyst is changed. Subpart ZZZZ. [40 CFR 63.6640(b)]
- 102 [40 CFR 63.6655] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.6655(a) through (d), as applicable. Subpart ZZZZ.
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: Six-minute average
- 103 [LAC 33.III.1311.C]
 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shakedown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33.III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- 104 [LAC 33.III.501.C.6] Equipment/operational data recordkeeping by electronic or hard copy annually. Recorded parameters are NOx and O2 concentrations in the stack gas obtained during annual testing.
- 105 [LAC 33.III.501.C.6] Stack gas concentration: Nitrogen oxides monitored by portable analyzer annually (twelve months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of NOx in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.
 Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 13145 - Unionville Storage Compressor Station
 Activity Number: PER20070001
 Permit Number: 1720-00014-V3
 Air - Title V Regular Permit Major Mod

EQT0028 3-07 Caterpillar G3516TALE Compressor Engine w/ ox. cat.

107 [LAC 33:III.501.C.6]

Stack gas concentration: Oxygen monitored by portable analyzer annually (twelve months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of O₂ in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.

Which Months: All Year Statistical Basis: None specified

Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing.

Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services.

FUG0001 2-95 Fugitive Emissions

110 [LAC 33:III.2111]

Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.

GRP0004 CEC Compressor Engine CAP

Group Members: EQT0006 EQT0007 EQT0008

111 [LAC 33:III.501.C.6]

Permittee shall limit NOX, CO, and VOC emissions from the two 6,500 hp and one 8,000 hp Dresser Clark TCV-16 Compressor Engines, EQT 6 - 1-69, EQT 7 - 2-69, and EQT 8 - 1-74, as follows:
 NOX = 877.60 tpy, CO = 274.95 tpy, and VOC = 35.72 tpy

Emissions shall be recorded each month, as well as the total emissions for the last twelve consecutive months. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Enforcement Division. A report showing NOX, CO, and VOC emissions from the above engines during each month of the preceding calendar year, as well as the twelve consecutive month total for each month, shall be submitted to the Enforcement Division annually by March 31.

UNF0001 Unionville Storage Compressor Station

112 [40 CFR 61.145(b)(1)]

Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies.
 Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. [40 CFR 61.145(b)(1)]

Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M.

All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.

Throughput recordkeeping by electronic or hard copy annually. Maintain records of the annual facility natural gas throughput. Upon request, submit these records to DEQ. Subpart HHH. [40 CFR 63.1270(a)(3)]

Do not shut down items of equipment that are required or utilized for compliance with the provisions of 40 CFR 63 Subpart HHH during times when emissions are being routed to such items of equipment, if the shutdown would contravene requirements applicable to such items of equipment. Subpart HHH. [40 CFR 63.1272(b)]

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- 117 [40 CFR 63.1272(b)] During startups, shutdowns, and malfunctions, implement measures to prevent or minimize excess emissions to the maximum extent practical in accordance with the applicable startup, shutdown, and malfunction plan. Subpart HHH. [40 CFR 63.1272(c)]
- 118 [40 CFR 63.1272(d)] Prepare a startup, shutdown, or malfunction plan as required by 40 CFR 63.6(e)(3), except as provided in 40 CFR 63.1272(e). Keep the plan on record as required by 40 CFR 63.6(e)(3)(v). Subpart HHH. [40 CFR 63.1272(d)]
- 119 [40 CFR 63.1284] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in 40 CFR 63.1284(b) through (e). Subpart HHH.
- 120 [40 CFR 63.1285(b)(1)] Submit Initial Notification: Due one year after becoming subject to the provisions of 40 CFR 63 Subpart HHH or by June 17, 2000, whichever is later, as required by 40 CFR 63.9(b)(2). Subpart HHH. [40 CFR 63.1285(b)(1)]
- 121 [40 CFR 63.1285(b)(3)] Submit performance test planned date: Due at least 60 days before the test, in accordance with 40 CFR 63.7(b). A separate notification of the performance test is not required if it is included in the initial notification submitted in accordance with 40 CFR 63.1285(b)(1). Subpart HHH. [40 CFR 63.1285(b)(3)]
- 122 [40 CFR 63.1285(b)(3)] Submit the site-specific test plan required by 40 CFR 63.7(c) with the notification of performance test, if requested by DEQ. Subpart HHH. [40 CFR 63.1285(b)(3)]
- 123 [40 CFR 63.1285(b)(6)] Submit Startup, Shutdown, Malfunction report: Due as required, as specified in 40 CFR 63.10(d)(5). Subpart HHH. [40 CFR 63.1285(b)(6)]
- 124 [40 CFR 63.1285(d)] Submit Notification of Compliance Status: Due within 180 days after the compliance date specified in 40 CFR 63.1270(d), as required under 40 CFR 63.9(h). Include the information required under 40 CFR 63.9(h) and 40 CFR 63.1285(d)(1) through (d)(10), as specified. Subpart HHH. [40 CFR 63.1285(d)]
- 125 [40 CFR 63.1285(e)] Submit Periodic Report: Due semiannually, beginning 60 calendar days after the end of the applicable reporting period. Submit the first report no later than 240 days after the date of the Notification of Compliance Status Report is due. Include the information specified in 40 CFR 63.1285(e)(2)(i) through (e)(2)(ix). Subpart HHH. [40 CFR 63.1285(e)]
- 126 [40 CFR 63.1285(f)] Submit report: Due 180 days after a process change or a change in any of the information submitted in the Notification of Compliance Status report is made, or as part of the next Periodic Report, whichever is sooner. Include the information specified in 40 CFR 63.1285(f)(1) through (f)(4). Subpart HHH. [40 CFR 63.1285(f)]
- 127 [40 CFR 63.6630(c)] Submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in 40 CFR 63.6645. Subpart ZZZZ. [40 CFR 63.6630(c)]
- 128 [40 CFR 63.6640(b)] Report each instance in which each applicable emission limitation or operating limitation in 40 CFR 63 Subpart ZZZZ Tables 1a and 1b and Tables 2a and 2b were not met according to the requirements of 40 CFR 63.6650. Subpart ZZZZ. [40 CFR 63.6640(b)]
- 129 [40 CFR 63.6640(e)] Report each instance in which the applicable requirements in 40 CFR 63 Subpart ZZZZ Table 8 were not met. Subpart ZZZZ. [40 CFR 63.6640(e)]
- 130 [40 CFR 63.6645] Submit all of the applicable notifications in 40 CFR 63.7(b) and (c), (f)(4) and (f)(6), and 63.9(b) through (e), (g), and (h) by the dates specified, as specified in 40 CFR 63.6645(b) through (f). Subpart ZZZZ.
- 131 [40 CFR 63.6650(f)] Report all deviations as defined in 40 CFR 63 Subpart ZZZZ in the semianual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). Subpart ZZZZ. [40 CFR 63.6650(f)]
- 132 [40 CFR 63.6650] Submit compliance status report: Due semiannually, by the 31st of January and July. Include the information specified in 40 CFR 63.6650(d)(1) through (c)(6) and 40 CFR 63 Subpart ZZZZ Table 7 1.a, 1.b, or 1.c. Include the information in 40 CFR 63.6650(d)(1) and (d)(2) and 63.6650(e)(1) through (e)(12), if applicable. Subpart ZZZZ.

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- 133 [40 CFR 63.6650] Submit startup, shutdown, and malfunction report: Due by fax or telephone within 2 working days after starting actions inconsistent with the startup, shutdown, and malfunction plan, and by letter within 7 working days after the end of the event unless alternate arrangements have been made with DEQ. Include in the report actions taken for the event, and the information specified in 40 CFR 63.10(d)(5)(ii). Subpart ZZZZ.
- 134 [40 CFR 63.6660(a)] Keep records in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b)(1). Subpart ZZZZ. [40 CFR 63.6660(a)]
- 135 [40 CFR 63.6660(b)] Keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record, as specified in 40 CFR 63.10(b)(1). Subpart ZZZZ. [40 CFR 63.6660(b)]
- 136 [40 CFR 63.6660(c)] Keep each record readily accessible in hard copy or electronic form on-site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). The remaining 3 years of records may be kept off-site. Subpart ZZZZ. [40 CFR 63.6660(c)]
- 137 [40 CFR 63.] All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A as delineated in Table 2 of 40 CFR 63 Subpart HHH and Table 8 of 40 CFR 63 Subpart ZZZZ.
- 138 [40 CFR 70.5(a)(1)(iii)] Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 139 [40 CFR 70.6(a)(3)(iii)(A)] Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]
- 140 [40 CFR 70.6(a)(3)(iii)(B)] Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(iii)(B)]
- 141 [40 CFR 70.6(c)(5)(iv)] Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
- 142 [LAC 33:III.1103] Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.
- 143 [LAC 33:III.1303.B] Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- 144 [LAC 33:III.2113.A] Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- 145 [LAC 33:III.219] Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- 146 [LAC 33:III.2901.D] Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.

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147 [LAC 33:III.2901.F]

If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.

148 [LAC 33:III.5151.F.1.f]

An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity.

149 [LAC 33:III.5611.A]

Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency. Due within 30 days after requested by the administrative authority.

150 [LAC 33:III.5611.B]

During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations.

151 [LAC 33:III.919.D]

Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Environmental Evaluation Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.